

Bis
cont.

each of the panels found above, thus largely eliminating any need for the map analyst to scan the flood map for the address location.

IN THE CLAIMS:

Please amend claims 17-23, as follows:

17. (Twice Amended) An apparatus that is capable of georeferencing a raster map, by:

means for providing for display of a first map in a first area of a display;

means for providing for display of a second map in a second area of the display, the first map being a digital raster map, and the second map being a previously georeferenced map, the first and second maps covering substantially the same geographic area when they are displayed;

means for receiving an entry identifying a first point pair, one point being on each map;

means for receiving an entry identifying a second point pair, one point being on each map, the corresponding points of the point pairs having approximately the same geographic location on each map;

means for assigning to the points on the first map a longitude coordinate and a latitude coordinate which is identical to the longitude coordinate and latitude coordinate of their corresponding points on the second map; and

means for computing a georeferencing function based on the pixel coordinates of the points of the first point pair on the first map and the geographic coordinates of the points of the second point pair on the second map.

Bile

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18. (Twice Amended) An apparatus as in claim 17, wherein the points of the point pairs comprise marks on the first map at respective locations and marks on the second map at corresponding locations.

19. (Twice Amended) An apparatus as in claim 17, wherein:
more than two point pairs are identified and are used to compute the georeferencing function pursuant to a transformation technique, and
which further comprises means for executing a validation check of the georeferencing function pursuant to a standard deviation technique.

20. (Twice Amended) An apparatus as in claim 19 wherein the means for executing a validation check is further capable of rejecting a point pair when the point pair deviates a predetermined amount from a predetermined standard error.

21. (Amended) An apparatus as in claim 19, wherein:
at least four points are identified and are used to compute the georeferencing function pursuant to a general linear transformation.

22. (Amended) An apparatus as in claim 19, wherein:
at least three points are identified and are used to compute the georeferencing function pursuant to a general rotational linear transformation.

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23. (Amended) A system for georeferencing a digital raster map, comprising:
a processing platform for executing code capable of georeferencing a
digital raster map; and

a storage platform coupled to the processing platform for storing at least a
digital raster map, the storage map comprising

facilities for providing for display of a first map in a first area of a display;

facilities for providing for display of a second map in a second area of the
display, the first map being a digital raster map, and the second map being a previously
georeferenced map, the first and second maps covering substantially the same
geographic area when they are displayed;

facilities for receiving an entry identifying a first point pair, one point being
on each map;

facilities for receiving an entry identifying a second point pair, one point
being on each map, the corresponding points of the point pairs having approximately
the same geographic location on each map;

facilities for assigning to the points on the first map a longitude coordinate
and a latitude coordinate which is identical to the longitude coordinate and latitude
coordinate of their corresponding points on the second map; and

facilities for computing a georeferencing function based on the pixel
coordinates of the points of the first point pair on the first map and the geographic
coordinates of the points of the second point pair on the second map.

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